

09/723, 718

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aptamer same ultraviolet	2

**Database:**

US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Refine Search:**

aptamer same ultraviolet

[Clear](#)**Search History****Today's Date: 6/1/2001**

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**WEST**

Generate Collection

L4: Entry 1 of 30

File: USPT

Feb 27, 2001

DOCUMENT-IDENTIFIER: US 6194598 B1

TITLE: Aminooxy-modified oligonucleotide synthetic intermediates

## DEPR:

Photo-crosslinking agents include aryl azides such as, for example, N-hydroxysuccinimidyl-4-azidobenzoate (HSAB) and N-succinimidyl-6(-4'-azido-2'-nitrophenyl-amino)hexanoate (SANPAH). Aryl azides conjugated to oligonucleotides effect crosslinking with nucleic acids and proteins upon irradiation, They also crosslink with carrier proteins (such as KLH or BSA), raising antibody against the oligonucleotides.

**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 10 of 74 returned.**☐ 1. Document ID: US 6232071 B1

L3: Entry 1 of 74

File: USPT

May 15, 2001

US-PAT-NO: 6232071

DOCUMENT-IDENTIFIER: US 6232071 B1

TITLE: Tenascin-C nucleic acid ligands

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6229002 B1

L3: Entry 2 of 74

File: USPT

May 8, 2001

US-PAT-NO: 6229002

DOCUMENT-IDENTIFIER: US 6229002 B1

TITLE: Platelet derived growth factor (PDGF) nucleic acid ligand complexes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6207816 B1

L3: Entry 3 of 74

File: USPT

Mar 27, 2001

US-PAT-NO: 6207816

DOCUMENT-IDENTIFIER: US 6207816 B1

TITLE: High affinity oligonucleotide ligands to growth factors

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6183967 B1

L3: Entry 4 of 74

File: USPT

Feb 6, 2001

US-PAT-NO: 6183967

DOCUMENT-IDENTIFIER: US 6183967 B1

TITLE: Nucleic acid ligand inhibitors to DNA polymerases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 6177555 B1

L3: Entry 5 of 74

File: USPT

Jan 23, 2001

US-PAT-NO: 6177555

DOCUMENT-IDENTIFIER: US 6177555 B1

TITLE: Homogeneous detection of a target through nucleic acid ligand-ligand beacon interaction

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 6171795 B1

L3: Entry 6 of 74

File: USPT

Jan 9, 2001

US-PAT-NO: 6171795

DOCUMENT-IDENTIFIER: US 6171795 B1

TITLE: Nucleic acid ligands to CD40ligand

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 6168778 B1

L3: Entry 7 of 74

File: USPT

Jan 2, 2001

US-PAT-NO: 6168778

DOCUMENT-IDENTIFIER: US 6168778 B1

TITLE: Vascular endothelial growth factor (VEGF) Nucleic Acid Ligand Complexes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 8. Document ID: US 6147204 A

L3: Entry 8 of 74

File: USPT

Nov 14, 2000

US-PAT-NO: 6147204

DOCUMENT-IDENTIFIER: US 6147204 A

TITLE: Nucleic acid ligand complexes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 9. Document ID: US 6140490 A

L3: Entry 9 of 74

File: USPT

Oct 31, 2000

US-PAT-NO: 6140490

DOCUMENT-IDENTIFIER: US 6140490 A

TITLE: High affinity nucleic acid ligands of complement system proteins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 10. Document ID: US 6127119 A

L3: Entry 10 of 74

File: USPT

Oct 3, 2000

US-PAT-NO: 6127119

DOCUMENT-IDENTIFIER: US 6127119 A

TITLE: Nucleic acid ligands of tissue target

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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Generate Collection

Terms	Documents
nucleic adj2 ligand same photoreactive	74

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Documents, starting with Document:

11

**Display Format:**

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**WEST**[Generate Collection](#)**Search Results - Record(s) 11 through 20 of 74 returned.**☐ 11. Document ID: US 6124449 A

L3: Entry 11 of 74

File: USPT

Sep 26, 2000

US-PAT-NO: 6124449

DOCUMENT-IDENTIFIER: US 6124449 A

TITLE: High affinity TGF.beta. nucleic acid ligands and inhibitors

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 12. Document ID: US 6114120 A

L3: Entry 12 of 74

File: USPT

Sep 5, 2000

US-PAT-NO: 6114120

DOCUMENT-IDENTIFIER: US 6114120 A

TITLE: Systematic evolution of ligands by exponential enrichment: tissue  
selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 13. Document ID: US 6083696 A

L3: Entry 13 of 74

File: USPT

Jul 4, 2000

US-PAT-NO: 6083696

DOCUMENT-IDENTIFIER: US 6083696 A

TITLE: Systematic evolution of ligands exponential enrichment: blended selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 14. Document ID: US 6051698 A

L3: Entry 14 of 74

File: USPT

Apr 18, 2000

US-PAT-NO: 6051698

DOCUMENT-IDENTIFIER: US 6051698 A

TITLE: Vascular endothelial growth factor (VEGF) nucleic acid ligand  
complexes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 15. Document ID: US 6048698 A

L3: Entry 15 of 74

File: USPT

Apr 11, 2000

US-PAT-NO: 6048698

DOCUMENT-IDENTIFIER: US 6048698 A

TITLE: Parallel SELEX.TM.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 16. Document ID: US 6030776 A

L3: Entry 16 of 74

File: USPT

Feb 29, 2000

US-PAT-NO: 6030776

DOCUMENT-IDENTIFIER: US 6030776 A

TITLE: Parallel SELEX

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 17. Document ID: US 6028186 A

L3: Entry 17 of 74

File: USPT

Feb 22, 2000

US-PAT-NO: 6028186

DOCUMENT-IDENTIFIER: US 6028186 A

TITLE: High affinity nucleic acid ligands of cytokines

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 18. Document ID: US 6020130 A

L3: Entry 18 of 74

File: USPT

Feb 1, 2000

US-PAT-NO: 6020130

DOCUMENT-IDENTIFIER: US 6020130 A

TITLE: Nucleic acid ligands that bind to and inhibit DNA polymerases

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 19. Document ID: US 6013443 A

L3: Entry 19 of 74

File: USPT

Jan 11, 2000



US-PAT-NO: 6013443  
DOCUMENT-IDENTIFIER: US 6013443 A  
TITLE: Systematic evolution of ligands by exponential enrichment: tissue  
SELEX

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 20. Document ID: US 6011020 A

L3: Entry 20 of 74

File: USPT

Jan 4, 2000

US-PAT-NO: 6011020  
DOCUMENT-IDENTIFIER: US 6011020 A  
TITLE: Nucleic acid ligand complexes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Generate Collection

Terms	Documents
nucleic adj2 ligand same photoreactive	74

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Documents, starting with Document:

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**Display Format:**

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**WEST**[Generate Collection](#)**Search Results - Record(s) 21 through 30 of 74 returned.**☐ 21. Document ID: US 6001577 A

L3: Entry 21 of 74

File: USPT

Dec 14, 1999

US-PAT-NO: 6001577

DOCUMENT-IDENTIFIER: US 6001577 A

TITLE: Systematic evolution of ligands by exponential enrichment:  
photoselection of nucleic acid ligands and solution selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 22. Document ID: US 6001988 A

L3: Entry 22 of 74

File: USPT

Dec 14, 1999

US-PAT-NO: 6001988

DOCUMENT-IDENTIFIER: US 6001988 A

TITLE: High affinity nucleic acid ligands to lectins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 23. Document ID: US 5998142 A

L3: Entry 23 of 74

File: USPT

Dec 7, 1999

US-PAT-NO: 5998142

DOCUMENT-IDENTIFIER: US 5998142 A

TITLE: Systematic evolution of ligands by exponential enrichment: chemi-SELEX

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 24. Document ID: US 5989823 A

L3: Entry 24 of 74

File: USPT

Nov 23, 1999

US-PAT-NO: 5989823

DOCUMENT-IDENTIFIER: US 5989823 A

TITLE: Homogeneous detection of a target through nucleic acid ligand-ligand  
beacon interaction

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 25. Document ID: US 5972599 A

L3: Entry 25 of 74

File: USPT

Oct 26, 1999

US-PAT-NO: 5972599

DOCUMENT-IDENTIFIER: US 5972599 A

TITLE: High affinity nucleic acid ligands of cytokines

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 26. Document ID: US 5962219 A

L3: Entry 26 of 74

File: USPT

Oct 5, 1999

US-PAT-NO: 5962219

DOCUMENT-IDENTIFIER: US 5962219 A

TITLE: Systematic evolution of ligands by exponential enrichment: chemi-selex

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 27. Document ID: US 5874218 A

L3: Entry 27 of 74

File: USPT

Feb 23, 1999

US-PAT-NO: 5874218

DOCUMENT-IDENTIFIER: US 5874218 A

TITLE: Method for detecting a target compound in a substance using a nucleic acid ligand

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 28. Document ID: US 5871924 A

L3: Entry 28 of 74

File: USPT

Feb 16, 1999

US-PAT-NO: 5871924

DOCUMENT-IDENTIFIER: US 5871924 A

TITLE: Method for the production of ligands capable of facilitating aminoacyl-RNA synthesis

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 29. Document ID: US 5869641 A

L3: Entry 29 of 74

File: USPT

Feb 9, 1999

US-PAT-NO: 5869641  
DOCUMENT-IDENTIFIER: US 5869641 A  
TITLE: High affinity nucleic acid ligands of CD4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 30. Document ID: US 5864026 A

L3: Entry 30 of 74

File: USPT

Jan 26, 1999

US-PAT-NO: 5864026  
DOCUMENT-IDENTIFIER: US 5864026 A  
TITLE: Systematic evolution of ligands by exponential enrichment: tissue  
selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Generate Collection

Terms	Documents
nucleic adj2 ligand same photoreactive	74

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Documents, starting with Document:

31

Display Format:

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**WEST**[Generate Collection](#)**Search Results - Record(s) 31 through 40 of 74 returned.**☐ 31. Document ID: US 5861254 A

L3: Entry 31 of 74

File: USPT

Jan 19, 1999

US-PAT-NO: 5861254

DOCUMENT-IDENTIFIER: US 5861254 A

TITLE: Flow cell SELEX

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 32. Document ID: US 5858660 A

L3: Entry 32 of 74

File: USPT

Jan 12, 1999

US-PAT-NO: 5858660

DOCUMENT-IDENTIFIER: US 5858660 A

TITLE: Parallel selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 33. Document ID: US 5859228 A

L3: Entry 33 of 74

File: USPT

Jan 12, 1999

US-PAT-NO: 5859228

DOCUMENT-IDENTIFIER: US 5859228 A

TITLE: Vascular endothelial growth factor (VEGF) nucleic acid ligand complexes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 34. Document ID: US 5853984 A

L3: Entry 34 of 74

File: USPT

Dec 29, 1998

US-PAT-NO: 5853984

DOCUMENT-IDENTIFIER: US 5853984 A

TITLE: Use of nucleic acid ligands in flow cytometry

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 35. Document ID: US 5849890 A

L3: Entry 35 of 74

File: USPT

Dec 15, 1998

US-PAT-NO: 5849890

DOCUMENT-IDENTIFIER: US 5849890 A

TITLE: High affinity oligonucleotide ligands to chorionic gonadotropin hormone and related glycoprotein hormones

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 36. Document ID: US 5846713 A

L3: Entry 36 of 74

File: USPT

Dec 8, 1998

US-PAT-NO: 5846713

DOCUMENT-IDENTIFIER: US 5846713 A

TITLE: High affinity HKGF nucleic acid ligands and inhibitors

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 37. Document ID: US 5837456 A

L3: Entry 37 of 74

File: USPT

Nov 17, 1998

US-PAT-NO: 5837456

DOCUMENT-IDENTIFIER: US 5837456 A

TITLE: High affinity oligonucleotide ligands to chorionic gonadotropin hormone and related glycoprotein hormones

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 38. Document ID: US 5837834 A

L3: Entry 38 of 74

File: USPT

Nov 17, 1998

US-PAT-NO: 5837834

DOCUMENT-IDENTIFIER: US 5837834 A

TITLE: High affinity HKGF nucleic acid ligands and inhibitors

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 39. Document ID: US 5795721 A

L3: Entry 39 of 74

File: USPT

Aug 18, 1998

US-PAT-NO: 5795721

DOCUMENT-IDENTIFIER: US 5795721 A

TITLE: High affinity nucleic acid ligands of ICP4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 40. Document ID: US 5789163 A

L3: Entry 40 of 74

File: USPT

Aug 4, 1998

US-PAT-NO: 5789163

DOCUMENT-IDENTIFIER: US 5789163 A

TITLE: Enzyme linked oligonucleotide assays (ELONAS)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Generate Collection

Terms	Documents
nucleic adj2 ligand same photoreactive	74

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Documents, starting with Document:

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**Display Format:**

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**WEST**[Generate Collection](#)**Search Results - Record(s) 41 through 50 of 74 returned.**☐ 41. Document ID: US 5789160 A

L3: Entry 41 of 74

File: USPT

Aug 4, 1998

US-PAT-NO: 5789160

DOCUMENT-IDENTIFIER: US 5789160 A

TITLE: Parallel selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 42. Document ID: US 5789157 A

L3: Entry 42 of 74

File: USPT

Aug 4, 1998

US-PAT-NO: 5789157

DOCUMENT-IDENTIFIER: US 5789157 A

TITLE: Systematic evolution of ligands by exponential enrichment: tissue selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 43. Document ID: US 5780228 A

L3: Entry 43 of 74

File: USPT

Jul 14, 1998

US-PAT-NO: 5780228

DOCUMENT-IDENTIFIER: US 5780228 A

TITLE: High affinity nucleic acid ligands to lectins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 44. Document ID: US 5773598 A

L3: Entry 44 of 74

File: USPT

Jun 30, 1998

US-PAT-NO: 5773598

DOCUMENT-IDENTIFIER: US 5773598 A

TITLE: Systematic evolution of ligands by exponential enrichment: chimeric selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 45. Document ID: US 5766853 A

L3: Entry 45 of 74

File: USPT

Jun 16, 1998

US-PAT-NO: 5766853

DOCUMENT-IDENTIFIER: US 5766853 A

TITLE: Method for identification of high affinity nucleic acid ligands to selectins

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 46. Document ID: US 5763595 A

L3: Entry 46 of 74

File: USPT

Jun 9, 1998

US-PAT-NO: 5763595

DOCUMENT-IDENTIFIER: US 5763595 A

TITLE: Systematic evolution of ligands by exponential enrichment: Chemi-SELEX

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 47. Document ID: US 5763566 A

L3: Entry 47 of 74

File: USPT

Jun 9, 1998

US-PAT-NO: 5763566

DOCUMENT-IDENTIFIER: US 5763566 A

TITLE: Systematic evolution of ligands by exponential enrichment: tissue SELEX

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 48. Document ID: US 5763177 A

L3: Entry 48 of 74

File: USPT

Jun 9, 1998

US-PAT-NO: 5763177

DOCUMENT-IDENTIFIER: US 5763177 A

TITLE: Systematic evolution of ligands by exponential enrichment: photoselection of nucleic acid ligands and solution selex

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 49. Document ID: US 5756287 A

L3: Entry 49 of 74

File: USPT

May 26, 1998

US-PAT-NO: 5756287  
DOCUMENT-IDENTIFIER: US 5756287 A  
TITLE: High affinity HIV integrase inhibitors

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 50. Document ID: US 5750342 A

L3: Entry 50 of 74

File: USPT

May 12, 1998

US-PAT-NO: 5750342  
DOCUMENT-IDENTIFIER: US 5750342 A  
TITLE: Nucleic acid ligands of tissue target

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Terms	Documents
nucleic adj2 ligand same photoreactive	74

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Documents, starting with Document:

51

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**WEST**[Generate Collection](#)**Search Results - Record(s) 51 through 60 of 74 returned.**☐ **51. Document ID: US 5734034 A**

L3: Entry 51 of 74

File: USPT

Mar 31, 1998

US-PAT-NO: 5734034

DOCUMENT-IDENTIFIER: US 5734034 A

TITLE: Nucleic acid ligand inhibitors of human neutrophil elastase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ **52. Document ID: US 5731424 A**

L3: Entry 52 of 74

File: USPT

Mar 24, 1998

US-PAT-NO: 5731424

DOCUMENT-IDENTIFIER: US 5731424 A

TITLE: High affinity TGF.beta. nucleic acid ligands and inhibitors

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ **53. Document ID: US 5731144 A**

L3: Entry 53 of 74

File: USPT

Mar 24, 1998

US-PAT-NO: 5731144

DOCUMENT-IDENTIFIER: US 5731144 A

TITLE: High affinity TGF.beta. nucleic acid ligands

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ **54. Document ID: US 5726017 A**

L3: Entry 54 of 74

File: USPT

Mar 10, 1998

US-PAT-NO: 5726017

DOCUMENT-IDENTIFIER: US 5726017 A

TITLE: High affinity HIV-1 gag nucleic acid ligands

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 55. Document ID: US 5723594 A

L3: Entry 55 of 74

File: USPT

Mar 3, 1998

US-PAT-NO: 5723594

DOCUMENT-IDENTIFIER: US 5723594 A

TITLE: High affinity PDGF nucleic acid ligands

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 56. Document ID: US 5723592 A

L3: Entry 56 of 74

File: USPT

Mar 3, 1998

US-PAT-NO: 5723592

DOCUMENT-IDENTIFIER: US 5723592 A

TITLE: Parallel selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 57. Document ID: US 5723289 A

L3: Entry 57 of 74

File: USPT

Mar 3, 1998

US-PAT-NO: 5723289

DOCUMENT-IDENTIFIER: US 5723289 A

TITLE: Parallel selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 58. Document ID: US 5712375 A

L3: Entry 58 of 74

File: USPT

Jan 27, 1998

US-PAT-NO: 5712375

DOCUMENT-IDENTIFIER: US 5712375 A

TITLE: Systematic evolution of ligands by exponential enrichment: tissue selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 59. Document ID: US 5705337 A

L3: Entry 59 of 74

File: USPT

Jan 6, 1998

US-PAT-NO: 5705337

DOCUMENT-IDENTIFIER: US 5705337 A

TITLE: Systematic evolution of ligands by exponential enrichment: chemi-SELEX

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 60. Document ID: US 5688935 A

L3: Entry 60 of 74

File: USPT

Nov 18, 1997

US-PAT-NO: 5688935

DOCUMENT-IDENTIFIER: US 5688935 A

TITLE: Nucleic acid ligands of tissue target

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Generate Collection

Terms	Documents
nucleic adj2 ligand same photoreactive	74

Display

10

Documents, starting with Document:

61

Display Format:

TI

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**WEST**[Generate Collection](#)**Search Results - Record(s) 61 through 70 of 74 returned.**☐ 61. Document ID: US 5686592 A

L3: Entry 61 of 74

File: USPT

Nov 11, 1997

US-PAT-NO: 5686592

DOCUMENT-IDENTIFIER: US 5686592 A

TITLE: High-affinity oligonucleotide ligands to immunoglobulin E (IgE)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 62. Document ID: US 5683867 A

L3: Entry 62 of 74

File: USPT

Nov 4, 1997

US-PAT-NO: 5683867

DOCUMENT-IDENTIFIER: US 5683867 A

TITLE: Systematic evolution of ligands by exponential enrichment: blended SELEX

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 63. Document ID: US 5674685 A

L3: Entry 63 of 74

File: USPT

Oct 7, 1997

US-PAT-NO: 5674685

DOCUMENT-IDENTIFIER: US 5674685 A

TITLE: High affinity PDGF nucleic acid ligands

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 64. Document ID: US 5668264 A

L3: Entry 64 of 74

File: USPT

Sep 16, 1997

US-PAT-NO: 5668264

DOCUMENT-IDENTIFIER: US 5668264 A

TITLE: High affinity PDGF nucleic acid ligands

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 65. Document ID: US 5654151 A

L3: Entry 65 of 74

File: USPT

Aug 5, 1997

US-PAT-NO: 5654151

DOCUMENT-IDENTIFIER: US 5654151 A

TITLE: High affinity HIV Nucleocapsid nucleic acid ligands

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 66. Document ID: US 5648214 A

L3: Entry 66 of 74

File: USPT

Jul 15, 1997

US-PAT-NO: 5648214

DOCUMENT-IDENTIFIER: US 5648214 A

TITLE: High-affinity oligonucleotide ligands to the tachykinin substance P

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 67. Document ID: US 5637682 A

L3: Entry 67 of 74

File: USPT

Jun 10, 1997

US-PAT-NO: 5637682

DOCUMENT-IDENTIFIER: US 5637682 A

TITLE: High-affinity oligonucleotide ligands to the tachykinin substance P

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 68. Document ID: US 5637459 A

L3: Entry 68 of 74

File: USPT

Jun 10, 1997

US-PAT-NO: 5637459

DOCUMENT-IDENTIFIER: US 5637459 A

TITLE: Systematic evolution of ligands by exponential enrichment: chimeric  
selex

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 69. Document ID: US 5635615 A

L3: Entry 69 of 74

File: USPT

Jun 3, 1997

US-PAT-NO: 5635615

DOCUMENT-IDENTIFIER: US 5635615 A

TITLE: High affinity HIV nucleocapsid nucleic acid ligands

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 70. Document ID: US 5587468 A

L3: Entry 70 of 74

File: USPT

Dec 24, 1996

US-PAT-NO: 5587468

DOCUMENT-IDENTIFIER: US 5587468 A

TITLE: High affinity nucleic acid ligands to HIV integrase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Generate Collection

Terms	Documents
nucleic adj2 ligand same photoreactive	74

Display

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Documents, starting with Document:

71

**Display Format:**

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**WEST**[Generate Collection](#)**Search Results - Record(s) 71 through 74 of 74 returned.**☐ 71. Document ID: US 5472841 A

L3: Entry 71 of 74

File: USPT

Dec 5, 1995

US-PAT-NO: 5472841

DOCUMENT-IDENTIFIER: US 5472841 A

TITLE: Methods for identifying nucleic acid ligands of human neutrophil elastase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 72. Document ID: US 5763177 A

L3: Entry 72 of 74

File: EPAB

Jun 9, 1998

PUB-NO: US005763177A

DOCUMENT-IDENTIFIER: US 5763177 A

TITLE: Systematic evolution of ligands by exponential enrichment: photoselection of nucleic acid ligands and solution selex

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 73. Document ID: WO 9508003 A1

L3: Entry 73 of 74

File: EPAB

Mar 23, 1995

PUB-NO: WO009508003A1

DOCUMENT-IDENTIFIER: WO 9508003 A1

TITLE: SYSTEMATIC EVOLUTION OF LIGANDS BY EXPONENTIAL ENRICHMENT: PHOTSELECTION OF NUCLEIC ACID LIGANDS AND SOLUTION SELEX

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 74. Document ID: AU 728910 B, WO 9508003 A1, AU 9477987 A, EP 736105 A1, US 5567588 A, JP 09502616 W, US 5763177 A, AU 9852711 A, AU 692185 B, US 6001577 A

L3: Entry 74 of 74

File: DWPI

Jan 18, 2001

DERWENT-ACC-NO: 1995-131369  
DERWENT-WEEK: 200109  
COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Selecting nucleic acid ligands for target molecules - by forming complexes then partitioning by photocrosslinking a selective soln. phase extension, useful e.g. in diagnosis or treatment of disease

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWOC	Draw Desc	Clip Img	Image
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Generate Collection

Terms	Documents
nucleic adj2 ligand same photoreactive	74

Display

10

Documents, starting with Document:

74

**Display Format:**

TI

Change Format

**WEST**☐ **Generate Collection**

L3: Entry 7 of 10

File: USPT

Sep 26, 2000

US-PAT-NO: 6124099

DOCUMENT-IDENTIFIER: US 6124099 A

TITLE: Method for placing a photo-cross-linking agent at specific internal sites  
within the sequence of synthetic strands of ribonucleic acids

DATE-ISSUED: September 26, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Heckman; Joyce E.	Burlington	VT	N/A	N/A
Pinard; Robert	Burlington	VT	N/A	N/A
Burke; John M.	Burlington	VT	N/A	N/A

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
The University of Vermont and State Agricultural College	Burlington	VT	N/A	N/A	02	

APPL-NO: 9/ 102599

DATE FILED: June 22, 1998

INT-CL: [7] C12Q 1/68

US-CL-ISSUED: 435/6

US-CL-CURRENT: 435/6

FIELD-OF-SEARCH: 435/6, 536/24.2, 536/26.6

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

**Search Selected****Search ALL**

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4835263</u>	May 1989	Nguyen et al.	536/27
<input type="checkbox"/> <u>5219734</u>	June 1993	Royer et al.	435/6
<input type="checkbox"/> <u>5292873</u>	March 1994	Rokita et al.	514/44
<input type="checkbox"/> <u>5296350</u>	March 1994	Rokita et al.	435/6
<input type="checkbox"/> <u>5449602</u>	September 1995	Royer et al.	435/6
<input type="checkbox"/> <u>5466786</u>	November 1995	Buhr et al.	536/26.26
<input type="checkbox"/> <u>5493012</u>	February 1996	Rokita et al.	536/26.6
<input type="checkbox"/> <u>5525495</u>	June 1996	Keene et al.	435/172.3
<input type="checkbox"/> <u>5550039</u>	August 1996	Trachtenberg	435/1.2
<input type="checkbox"/> <u>5561222</u>	October 1996	Keene et al.	530/350
<input type="checkbox"/> <u>5587361</u>	December 1996	Cook et al.	514/44
<input type="checkbox"/> <u>5608046</u>	March 1997	Cook et al.	536/23.1
<input type="checkbox"/> <u>5623068</u>	April 1997	Reddy et al.	536/25.34
<input type="checkbox"/> <u>5670633</u>	September 1997	Cook et al.	536/23.1
<input type="checkbox"/> <u>5681941</u>	October 1997	Cook et al.	536/23.1
<input type="checkbox"/> <u>5741643</u>	April 1998	Gryaznov et al.	435/6
<input type="checkbox"/> <u>5747253</u>	May 1998	Ecker et al.	435/6
<input type="checkbox"/> <u>5750667</u>	May 1998	Wickens et al.	536/23.1

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
WO94/24120	October 1994	WOX	
WO95/01364	January 1995	WOX	

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Zheng, et al., "Characterization of a novel . . . ", Biochemistry, 1998, 37:6:1706-1713, Abstract.  
Pinard, R et al., "Site-directed photoaffinity cross-linking.", Gordon Res. Conf., Nucleic Acids, Jun. 22-24, 1997, and 4th Cambridge Symposium, Oligonucleotide Chemistry and Biology, Aug. 29-Sep. 4, 1997, Abstract.

ART-UNIT: 164

PRIMARY-EXAMINER: Houtteman; Scott W.

ATTY-AGENT-FIRM: Wolf, Greenfield & Sacks, P.C.

#### ABSTRACT:

This invention describes novel photoactive ribonucleotides that contain photocrosslinking agents placed at specific internal positions within a ribonucleotide. The invention also provides methods for identifying novel, sequence-specific target molecules, using the photoactive ribonucleotides of the invention, as well as improved nucleic acid hybridization analysis methods.

20 Claims, 0 Drawing figures

**WEST**☐ **Generate Collection**

L3: Entry 9 of 10

File: USPT

Nov 7, 1989

US-PAT-NO: 4879220

DOCUMENT-IDENTIFIER: US 4879220 A

TITLE: Crosslinking receptor-specific probes for electron microscopy

DATE-ISSUED: November 7, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mrsny; Randall J.	Eugene	OR	N/A	N/A
Birrell; G. Bruce	Eugene	OR	N/A	N/A
Volwerk; Johannes J.	Eugene	OR	N/A	N/A

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
State of Oregon Acting By and Through the State Board of Higher Education On Behalf of the University of Oregon	Eugene	OR			09	

APPL-NO: 6/ 932437

DATE FILED: November 18, 1986

INT-CL: [4] G01N 33/53

US-CL-ISSUED: 435/7; 436/525, 436/526, 436/501, 424/3, 424/7.1, 435/6

US-CL-CURRENT: 435/7.21; 435/6, 435/7.25, 436/501, 436/525, 436/526

FIELD-OF-SEARCH: 436/526, 436/525, 436/501, 424/3, 424/7.1, 435/7, 435/6

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

☐ **Search Selected**☐ **Search ALL**

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4035316</u>	July 1977	Yen et al.	N/A
<input type="checkbox"/>	<u>4256725</u>	March 1981	Rutner et al.	N/A
<input type="checkbox"/>	<u>4313734</u>	February 1982	Leuving	N/A
<input type="checkbox"/>	<u>4420558</u>	December 1983	De Mey et al.	N/A
<input type="checkbox"/>	<u>4446238</u>	May 1984	De Mey et al.	N/A
<input type="checkbox"/>	<u>4452773</u>	June 1984	Molday	N/A
<input type="checkbox"/>	<u>4552812</u>	November 1985	Margel et al.	N/A
<input type="checkbox"/>	<u>4735796</u>	May 1985	Gordon	436/518
<input type="checkbox"/>	<u>4742000</u>	May 1986	Greene	436/503

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Mrsny et al., "Potassium Ion Influx and Na<sup>sup.</sup>+, K<sup>sup.</sup>+ -ATPase Activity Are Required for the Hamster Sperm Acrosome Reaction," J. Cell Biol. 91:77-82 (1981).  
Mrsny et al., "Photoelectron Imaging of Guinea-Pig, Hamster and Human Spermatozoa," J. Reprod. Fert. 74:127-134 (1985).  
Mrsny et al., "Hamster Sperm Na<sup>sup.</sup>+, K<sup>sup.</sup>+ -Adenosine Triphosphatase: Increased Activity During Capacitation in Vitro and Its Relationship to Cyclic Nucleotides," Biol. of Reprod. 30:573-584, (1984).

ART-UNIT: 181

PRIMARY-EXAMINER: Richman; Barry S.

ASSISTANT-EXAMINER: Alfandary-Alexander; Lyle

ATTY-AGENT-FIRM: Klarquist, Sparkman, Campbell, Leigh & Whinston

#### ABSTRACT:

A method and probes are disclosed for the localization of functional receptors by electron microscopy (EM). Electron dense probes are directed to receptors by means of specific ligand-receptor interactions and subsequently anchored covalently to target cellular material. A particular probe is a complex between colloidal gold and dextran derivatized with diamino-hexane and containing photo-activatable nitroarylazido groups. Ligands with a specific affinity for certain receptors can be covalently attached to the complex to provide receptor-specific markers. For example, ouabain can be covalently attached to the dextran matrix to produce a probe specific for functional units of Na,K-ATPase. Covalent attachment of the bound probes at or near their respective receptors greatly enhances retention of probe during washing and standard procedures of fixation and dehydration in preparation for EM.

39 Claims, 6 Drawing figures